

C. T. WALKER.
 LOOM PICKER.
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929,352.

Patented July 27, 1909.

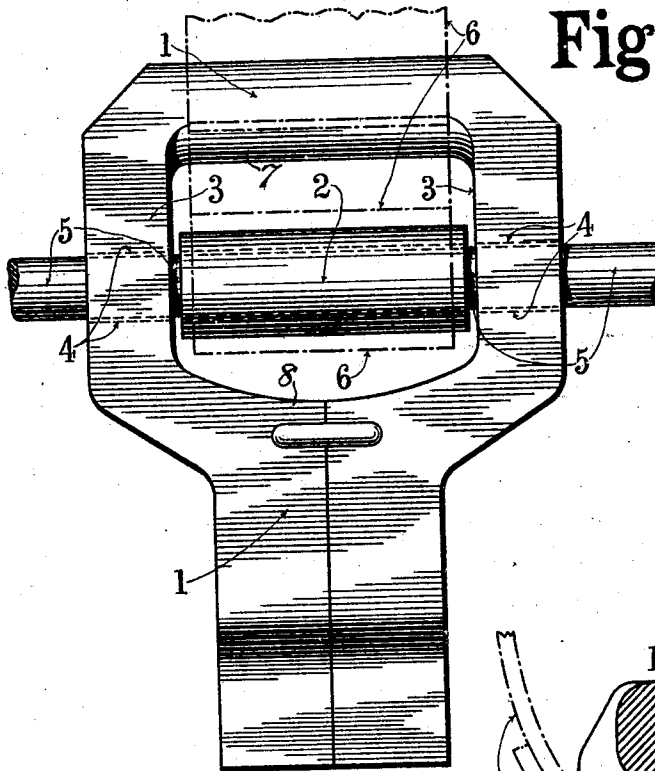


Fig. 1

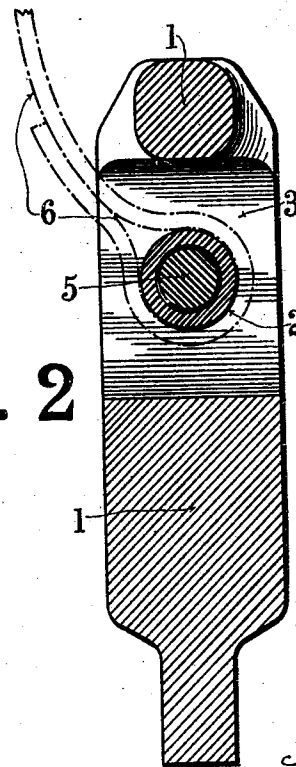


Fig. 2

Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES TEMPEST WALKER, OF LEEDS, ENGLAND.

LOOM-PICKER.

No. 929,352.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES TEMPEST WALKER, of Leeds, in the county of York, England, a subject of the King of Great Britain and Ireland, have invented certain new and useful Improvements in or Relating to Loom-Pickers, and of which the following is a specification.

In actuating the pickers of looms for weaving, the picking strap has hitherto been secured to a head formed on the picker above the guide spindle on which the picker travels, or the said picking strap has been passed around a tubular bridge formed integral with the picker and through which the guide spindle passes. In both these arrangements the pull of the strap tends to twist the picker in addition to exerting the requisite propelling effect, and consequently much power is wasted and the picker is subject to undue strain.

Now the object of this present invention is to so connect the picking strap to the picker, that the entire pull of the strap is used for propelling the picker and the latter is permitted to reciprocate evenly and is not twisted or caused to grip the guide spindle. To this end and according to my invention, I provide the picker with a loose tubular sleeve or ferrule of a length somewhat less than the width of the picker between its vertical side walls, which loose tubular sleeve or ferrule is placed within the picker between its vertical side walls coaxially with the guide-holes situated therein. The guide spindle is passed directly through the side walls of the picker and through the loose tubular sleeve or ferrule so as to be a sliding fit therein, while the strap is passed between the vertical side walls of the picker and around the loose tubular sleeve or ferrule located on the guide spindle, so that the pull of the strap comes merely onto the loose ferrule and causes the latter to impart a direct end thrust to the picker which is thus reciprocated evenly and not twisted or caused to grip the spindle. The loose tubular sleeve or ferrule is preferably made of heat-resisting material so as to prevent the frictional heat from the spindle being transferred to the strap; and if desired, the said sleeve or ferrule may be provided with lubricating packing for automatically lubricating the spindle during the travel of the picker.

The invention will now be described with

reference to the example of construction shown in the accompanying drawings, wherein—

Figures 1 and 2 are respectively a side elevation and a transverse section, showing a picker mounted on its guide spindle and being fitted with a loose tubular sleeve or ferrule in accordance with my invention.

Referring to the drawings, I provide the picker 1,—which has at one end a closed loop or eye as shown in Fig. 1,—with a loose tubular sleeve or ferrule 2 of a length about equal to the width of the picker 1 between its vertical side walls 3, which loose tubular sleeve or ferrule 2 is placed within the picker 1 coaxially with the guide holes 4 situated therein between the top and bottom ends 7 and 8 respectively of the loop or eye. The guide spindle 5 is passed directly through the side walls 3 of the picker 1, by way of the guide holes 4 and through the loose tubular sleeve or ferrule 2, so as to be a sliding fit therein, while the strap 6, shown in dotted lines, is passed between the vertical side walls 3 of the picker 1 and around the loose tubular sleeve or ferrule 2 located on the guide spindle 5. It will be seen that by employing the loose tubular sleeve or ferrule 2, having freedom of both rotative and end-to-end movement, a direct end propelling action will be imparted to the picker 1 without exerting any strain whatever upon the picker itself, and thus not only is the smooth and efficient action of the picker 1 on the guide spindle 3 insured, but the life of the said picker 1 is considerably prolonged and a straight pick for the shuttle is produced.

I claim as my invention:

1. In a loom picker, the combination with the picker and the picking strap, of a guide spindle in said picker and a loose tubular sleeve or ferrule on said spindle, located between the side walls of the picker and of a length less than the distance between said side walls.

2. In a loom picker, the combination with the picker and the picking strap, of a guide spindle in said picker and a loose tubular sleeve or ferrule on said spindle, located between the end walls of the picker and capable of both rotative and end-wise movement on said spindle, whereby the entire pull of the strap is used for propelling the picker.

3. The combination of a loom picker having a closed loop or eye formed at one end of same, a spindle extending transversely of

said loop or eye through the side walls thereof and between the top and bottom ends of the loop or eye, and a loose sleeve or ferrule embracing said spindle and capable of
5 end play between the aforesaid side walls.

4. In a loom picker, the combination with the picker and the picking strap, of a guide spindle in said picker and a loose tubular

heat-resisting sleeve or ferrule on said spindle, located between the side walls of the
10 picker.

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Witnesses:

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